California	Environmental	Protection	Agency
OD Ai	r Resou	rces B	oard

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: The engine and emission control systems produced by the manufacturer are certified as described below for use in on-road motor vehicles with a manufacturer's GVWR over 14,000 pounds. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL	ENGINE FAMILY	ENGINE	FUEL TYPE	STANDARDS & TEST		ECS & SPECIAL FEATURES					
YEAR		SIZES (L)		PROCEDURE	CLASS	DDI, TC, CAC, ECM, EGR, DOC,					
2013	DVPTH10.8S01	10.8	Diesel	Diesel	HHDD	PTOX, SCR-U, AMOX	000 (\$)				
PRIMARY											
EMISSIO	SIONS CONTROL										
	30g N/A										
ENGINE (NGINE (L) ENGINE MODELS / CODES (rated power, in hp)										
10.8	.8 See attachment for engine models and ratings										
* =not applicable: GVWR=pross vehicle weight rating: 13 CCR xvz=Title 13 California Code of Regulations. Section xvz: 40 CFR 86.abc=Title 40. Code of Federal Regulations. Section 86.abc:											

Inter the photocology of the second sec

L/M/H HDD=light/medium/heavy heavy-duty diesel; UB=urban bus; HDO=heavy duty Otto;

³ ECS-emission control system; TWC/OC-three-way/callyst; NAC=NOX adsorption catalyst; SCR-U / SCR-N=selective catalytic reduction – urea / – ammonia; WU (prefix) =warmup catalyst; DPF=diesel particulate filter; PTOX=periodic trap oxidizer; HO2S/O2S=heated/oxygen sensor; HAFS/AFS=heated/air-fuel-ratio sensor (a.k.a., universal or timear oxygen sensor); TBI=throttle body fuel injection; SFI/MFI=sequential/multi port fuel injection; DGI=direct gasoline injection; GCARB=gaseous carburetor; IDI/DDI=indirect/direct diesel injection; TC/SC=turbo/ super charge; CAC=charge air cooler; EGR / EGR-C=exhaust gas recirculation / cooled EGR / PAIR/AIR=pulsed/secondary air injection; SPL=smoke pulf limiter; ECM/PCM=engine/powertrain pontrol module; EM=engine modification; 2 (prefix)=parallel; (2) (suffix)=in series; AMOX = ammonia oxidation catalyst; DOC = Diesel Oxidation Catalyst DOC = Diesel Oxidation Catalyst

ESS=engine shutdown system (per 13 CCR 1956.8(a)(6)(A)(1): 30g=30 g/hr NOx (per 13 CCR 1956.8(a)(6)(C): APS =internal auxiliary power system; ALT=alternative method (per 13 CCR 1956.8(a)(6)(D); Exempt=exempted per 13 CCR 1956.8(a)(6)(B) or for CNG/LNG fuel systems; N/A=not applicable (e.g., Otto engines and vehicles);

EMD=engine manufacturer diagnostic system (13 CCR 1971); OBD (F/P/\$) = full/partial/partial with fine on-board diagnostic system (13 CCR 1971.1)

Following are: 1) the FTP exhaust emission standards, or family emission limit(s) as applicable, under 13 CCR 1956.8; 2) the EURO and NTE limits under the applicable California exhaust emission standards and test procedures for heavyduty diesel engines and vehicles (Test Procedures); and 3) the corresponding certification levels, for this engine family. "Diesel" CO, EURO and NTE certification compliance may have been demonstrated by the manufacturer as provided under the applicable Test Procedures in lieu of testing. (For flexible- and dual-fueled engines, the CERT values in brackets [] are those when tested on conventional test fuel. For multi-fueled engines, the STD and CERT values for default operation permitted in 13 CCR 1956.8 are in parentheses.).

in	NMHC		NOx		NMHC+NOx		co		PM		нсно	
g/bhp-hr	FTP	SET	FTP	SET	FTP	SET	FTP	SET	FTP	SET	FTP	SET
STD	0.14	0.14	0.20	0.20	*	*	15.5	15.5	0.01	0.01	*	. *
FEL	*	*	*	*	*	*	*	*	*	*	*	*
CERT	0.02	0.01	0.13	0.09	*	*	0.6	0.01	0.001	0.002	*	*
NTE	0.	21	0.	30		*	19	9.4	0.	02		*
4 g/bbp-br=c	albha bearams per brake borsenower bours FTP=Federal Test Procedure SET=Supplemental emissions testing NTF=Not-to-Evreed STD=standard or emission test can											

g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; SET=Supplemental emissions testing; NTE=Not-to-Exceed; STD=standard or emission test cap; FEL=family emission limit; CERT=certification level; NMHC/HC=non-methane/hydrocarbon; NOx=oxides of nitrogen; CO=carbon monoxide; PM=particulate matter; HCHO=formaldehyde;

BE IT FURTHER RESOLVED: The listed engine models are conditionally certified in accordance with 13 CCR Section 1971.1(k) (deficiency and fines provisions for certification of malfunction and diagnostic system) because the heavy-duty on-board diagnostic (HD OBD) system of the listed engine models has been determined to have thirty-two deficiencies. The listed engine models are approved subject to the manufacturer paying a fine of \$500 per engine for the third through thirty-second deficiencies in the listed engine family that is produced and delivered for sale in California. On a quarterly basis, the manufacturer shall submit to the Air Resources Board reports of the number of engines produced and delivered for sale in California and pay the full fine owed for that quarter pursuant to this conditional certification. Payment shall be made payable to the State Treasurer for deposit in the Air Pollution Control Fund no later than thirty (30) days after the end of each calendar quarter during the 2013 model-year production period. Failure to pay the quarterly fine, in full, in the time provided, may be cause for the Executive Officer to rescind this conditional certification, effective from the start of the quarter in question, in which case all engines covered under this conditional certification for that quarter and all future quarters would be deemed uncertified and subject to a civil penalty of up to \$5000 per engine pursuant to HSC Section 43154.

BE IT FURTHER RESOLVED: Except in vehicle applications exempted per 13 CCR 1956.8(a)(6)(B), engines in this engine family certified under 13 CCR 1956.8(a)(6)(C) [30 g/hr NOx] and section 35.B.4 of the incorporated "California Exhaust Emissions Standards and Test Procedures for 2004 and Subsequent Model Heavy-Duty Diesel Engines and Vehicles" adopted Dec. 12, 2002, as last amended March 22, 2012, shall be provided with an approved "Certified Clean Idle" label that shall be affixed to the vehicle into which the engine is installed.

BE IT FURTHER RESOLVED: For the listed engine models the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR 1965 (emission control labels), 13 CCR 1971.1 (on-board diagnostic, full or partial compliance) and 13 CCR 2035 et seq. (emission control warranty).

California Environmental Protection Agency

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed at El Monte, California on this ______ day of December 2012.

Annette Hebert, Chief Mobile Source Operations Division

Engine Model Summary Template

ATTACHMENT (OF2

A-242-0070 12/20/12

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak H (for diesel only)	5.Fuel Rate: IP (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: bs/hr)@peak torque	9.Emission Control Device Per SAE J1930
DVPTH10.8S01	N / A	MP7-325E	325 @ 1850	188.1	116.2	1282 @ 1200	241.3	96.7	TC, CAC, EGR, DDI, ECM, DOC, PTOX, SCR, AMOX
DVPTH10.8S01	N / A	MP7-355E	355 @ 1800	212.4	127.6	1393 @ 1200	262.9	105.3	TC, CAC, EGR, DDI, ECM, DOC, PTOX, SCR, AMOX
DVPTH10.8S01	N/A	MP7-405E	405 @ 1800	247.6	148.8	1493 @ 1200	282.5	113.2	TC, CAC, EGR, DDI, ECM, DOC, PTOX, SCR, AMOX
DVPTH10.8S01	N / A	MP7-345A	345 @ 1500	236.2	118.3	1249 @ 1000	230.8	77.1	TC, CAC, EGR, DDI, ECM, DOC, PTOX, SCR, AMOX
DVPTH10.8S01	N / A	MP7-345C	345 @ 1500	236.2	118.3	1392 @ 1200	261.7	104.9	TC, CAC, EGR, DDI, ECM, DOC, PTOX, SCR, AMOX
DVPTH10.8S01	N / A	MP7-345C	345 @ 1500	244.7	122.6	1439 @ 1200	271.2	108.7	TC, CAC, EGR, DDI, ECM, DOC, PTOX, SCR, AMOX
DVPTH10.8S01	N / A	MP7-345R	345 @ 1600	228.8	122.2	1345 @ 1100	252.2	92.6	TC, CAC, EGR, DDI, ECM, DOC, PTOX, SCR, AMOX
DVPTH10.8S01	N / A	MP7-365C	365 @ 1450	259.7	125.7	1491 @1200	280.8	112.5	TC, CAC, EGR, DDI, ECM, DOC, PTOX, SCR, AMOX
DVPTH10.8S01	N / A	MP7-395C	395 @ 1500	274.7	137.6	1597 @ 1200	304.0	121.8	TC, CAC, EGR, DDI, ECM, DOC, PTOX, SCR, AMOX
DVPTH10.8S01	N / A	MP7-395C	395 @ 1500	275.3	137.9	1588 @1200	303.4	121.6	TC, CAC, EGR, DDI, ECM, DOC, PTOX, SCR, AMOX
DVPTH10.8S01	N / A	MP7-325M	325 @ 1900	186.1	118.1	1215 @ 1200	228.5	91.6	TC, CAC, EGR, DDI, ECM, DOC, PTOX, SCR, AMOX
DVPTH10.8S01	N/A	MP7-325M	325 @ 1900	192.3	122.0	1270 @ 1200	240.3	96.3	TC, CAC, EGR, DDI, ECM, DOC, PTOX, SCR, AMOX
DVPTH10.8S01	N/A	MP7-365M	365 @ 1900	211.7	134.3	1361 @ 1200	257.3	103.1	TC, CAC, EGR, DDI, ECM, DOC, PTOX, SCR, AMOX
DVPTH10.8S01	N / A	MP7-365M	365 @ 1900	215.4	136.6	1420 @ 1200	268.8	107.7	TC, CAC, EGR, DDI, ECM, DOC, PTOX, SCR, AMOX
DVPTH10.8S01	N / A	MP7-405M	405 @ 1900	239.8	152.2	1513 @ 1200	286.2	114.7	TC, CAC, EGR, DDI, ECM, DOC, PTOX, SCR, AMOX
DVPTH10.8S01	N / A	MP7-405M	405 @ 1900	240.2	152.4	1560 @ 1200	298.1	119.4	TC, CAC, EGR, DDI, ECM, DOC, PTOX, SCR, AMOX
DVPTH10.8S01	N / A	D11H-355	355 @ 1700	221.3	125.6	1229 @ 1050	235.2	82.5	TC, CAC, EGR, DDI, ECM, DOC, PTOX, SCR, AMOX
		A REAL PROPERTY AND A REAL PROPERTY A REAL PROPERTY A REAL PROPERTY A REAL PROPERTY A	A Second Street Second Street St				and the second	where you address and a second second dealer and the second second second second second second second second se	

Engine Model Summary Template ATTACHMENT 2 OF2

A-242-0070 12/20/12

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak Hi (for diesel only)	5.Fuel Rate: P (ibs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peat torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
DVPTH10.8S01	N/A	D11H-365	365 @ 1700	225.9	128.2	1379 @ 1100	260.9	95.8	TC, CAC, EGR, DDI, ECM, DOC, PTOX, SCR, AMOX
DVPTH10.8S01	N/A	D11H-385	385 @ 1700	240.8	136.7	1508 @ 1200	284.3	113.9	TC, CAC, EGR, DDI, ECM, DOC, PTOX, SCR, AMOX
DVPTH10.8S01	N/A	D11H-405	405 @ 1800	248.9	149.6	1494 @ 1200	284.1	113.8	TC, CAC, EGR, DDI, ECM, DOC, PTOX, SCR, AMOX